

**Periodic Table Notes**  
**Grade 7 Science**  
**Mrs. Astbury**

**Periods**

- The periods are the horizontal rows that go across the table. There are seven periods.
- All the elements in a period have the same number of orbitals, or shells.
- The period number tells how many orbitals the elements in that period have.

**Groups**

- Groups are the columns that go down the periodic table.
- There are 18 groups.
- Each element in a group has the same number of electrons in its outer shell.
- The group number tells how many electrons are in the outer shell.
- For groups 13-18, you must first subtract 10 from the group number to get the number of electrons in the outer shell

**Families**

- Families are groups of elements that have similar chemical properties.
- The families of the Periodic Table are:
  - Alkali Metals
  - Alkaline Earth Metals
  - Transition Metals
  - Halogen Gases
  - Inert or Noble Gases
- Examples of Chemical Properties Used to define families are:
  - Valence (a measure of how much an atom wants to bond with another atom)
  - Reactivity
  - Radioactivity